(c) whether coordination is being maintained with the State Government of Himachal Pradesh to gear up its machinery to set the marketing infrastructure in place to handle the anticipated heavy crop, in the interest of the apple growers?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI SOMPAL): (a) Yes, Sir.

(b) and (c) Ministry of Food processing Industries under its Plan Schemes provides financial assistance in the form of soft loans (at only 4% rate of interest) and grant-in-aid to Cooperatives, Non-Government Organisations, Public Sector Undertakings and Private Sector Undertakings for development of processed food industries which includes processing of apples. During the period 1992-93, financial assistance of Rs. 9.43 crores has been extended in respect of proposals received from the State of Himachal Pradesh for creation of infrastructural facilities including cold chain, setting up/ expansion/modernisation of processing units etc. The assistance provided also covers apple processing units.

State Government of Himachal Pradesh has identified Director of Industries Government of Himachal Pradesh as the Nodal Agency processed food industries. Close interaction with all Nodal Agencies including that of Himachal Pradesh is maintained for development of this sector.

Wind Power Projects in Gujarat

2520. SHRI AHMED PATEL: Will the PRIME MINISTER be pleased to state:

(a) the total number of wind power projects which are functional at present in Gujarat, district-wise;

(b) whether Government are aware that the State has more potential for generating wind power;

(c) if so, whether Government propose to establish more wind power projects in the State to tap the potential; and

(d) if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS, THE MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS AND THE MINISTER OF STATE IN THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION (SHRI RAM NAIK): (a) The district-wise operational wind power capacity at present in the State of Gujarat is given below:

District	Operational Wind Power Capacity (MW)
Jamnagar	57
Rajkot	65
Kutch	2

(b) to (d) Yes, Sir. Wind power projects are now being undertaken by the private sector as commercial projects. Further wind power capacity addtion in the State to tap the potential will depend upon early announcement of a conducive policy by the State Government, technical feasibility, economic viability and continuation of fiscal and promotional incentives.

Schemes for Non-Conventional Energy Development

2521. DR. ARUN KUMAR SARMA: Will the PRIME MINISTER be pleased to state:

(a) the particulars of the scheme in operation under the non-conventional energy sector in the country;

(b) the scheme-wise details of their operational status, financial allocations and achievements made since 1996;

(c) reasons for very low performance of this sector in the State of Assam and steps taken for improvement; and

(d) the details of proposals, if any, Pending for clearance?

THE MINISTER OF STATE IN THE MINISTRY OF RAILWAYS, THE MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS AND THE MINISTER OF STATE IN THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION (SHRI RAM NAIK): (a) and (b) A wide range of schemes in the non-conventional energy sector are being implemented including biogas plants; improved chulhas; Integrated Rural Energy Programme; biomass gasification and briquetting plants; solar thermal water heating systems, both domestic and industrial; solar photovoltaic systems for lighting; water pumping and village-level power plants; wind power; small hydro power; biomass power; bagasse-based cogeneration; and energy from urban and industrial wastes.

A large number of porjects based on these schemes are in operation throughout the country in various States/UTs. Scheme-wise details of financial allocations and achievements since 1996 are given in the Statement I and II (*see* below).

(c) Low performance of this sector in the State of Assam can mainly be attributed to the low priority accorded at the State level; lack of a dedicated State Nodal Agency; inadequate State Plan allocations; remoteness and inaccessibility; high capital costs; and lack of trained manpower and entrepreneurs to implement these schemes. Steps have been taken to set up a Nodal Agency in the State for this sector, and earmarking of funds for implementation of these schemes in the North-Eastern Region, including Assam.

(d) No proposals received from the State of Assam are pending for clearnace in the Ministry.

Statement-I

Programme-wise financial allocation and expenditure incurred during 1996-97 and 1997-98

(Rs. in crores)

S.No.	Name of the Programme	1996-97		1997-98	
		Allocation	Expenditure	Allocation	Expenditure
1.	*National Project on Biogas Development*	57.00	49.09	58.15	55.00
2	Community/Institutional/Night soil based Biogas Plants	4.40	4.38	8.50	5.80
3.	National Programme on Improved Chulha	16.75	15.40	17.70	16.56
4.	Biomass Gasifiers	3.00	2.00	4.00	1.00
5.	Integrated Rural Energy Programme	16.00	6.11	11.80	5.57
6.	Special Area Demonstration Programme	3.00	0.21	1.00	0.50
7.	Urjagram Programme	1.00	0.07	1.00	Nil
8.	Solar Photovoltaic	23.05	11.29	33.50	15.44
9.	SPV Water Pumping	16.00	10.37	13.00	0.03
10.	Solar Thermal Energy Programme	7.66	2.76	5.00	2.91
11.	Wind Pump & Aero-generator/Hybrid System	0.75	0.24	0.95	0.48
12.	*Wind Power Programme*	7.00	37.16	4.85	3.08
13.	Small Hydro Power Programme	27.00	10.00	26.00	18.77
14.	Bagasse Cogeneration & Biomass Combustion	8.00	4.53	7.00	6.56
15.	SPV Power Programme	5.30	1.51	3.00	1.90
16.	Energy from Urban, Municipal and Industrial Wastes	5.00	1.50	8.00	0.60
17.	New Technologies				
	(i) Hydrogen Energy	0.50	0.14	1.00	0.39
	(ii) Chemical Sources of Energy	1.34	0.49	3.50	1.25
	(iii) Geo-thermal Energy	0.20	0.50	0.50	0.01
	(iv) Alternate fuel for Surface Transportation	4.00	0.64	4.00	0.33
	(v) Ocean Energy	0.30	0.005	1.00	Nil

Statement-II

programme-wise physical targets and achievements for the year 1996-97 and 1997-98

S.No.	Name of the Programme	Unit	1996-97		1997-98	
			Targets	Achievements	Targets	Achievements
1.	National Project on Biogas Development	No. in lakh	1.65	1.70	1.75	1.74
2	Community/Institutional/Night soil based Biogas Plants		250	351	300	263
3.	National Programme on Improved Chulha	No. in lakh	25.00	29.60	30.00	27.98
4.	Biomass Gasifiers	MW	4.00	5.00	6.00	2.50
5.	Integrated Rural Energy Programme	No. in block	100	Nil	100	200
6.	Special Area Demonstration Programme/Engrgy Parks		72	8	54	54
7.	Urjagram					
	(i) Energy Surveys	Nos.	100	Nil	Nil	Nil
	(ii) Urjagram Projects	Nos	25	12	100	Nil
	(iii) District level Energy Planning Studies	Nos.	2	Nil	Nil	Nil
8.	Solar photovoltaic					
	(i) Solar Lanterns	Nos.	35,000	50,131	60,000	46,808
	(ii) Home Lighting Systems	Nos	10,000	14,971	25,000	17,814
	(iii) Street Lighting Systems	Nos.	500	528	Nil	1,169
	(iv) Power Packs	KWp	50	84	100	6
9.	SPV Water Pumping	Nos.	1,000	610	1,000	528
10.	Solar Thermal Programme	Sq.M	35,000	40,000	35,000	40,000
11.	Solar Cookers	Nos.	25,000	26,000	25,000	21,000
12.	Water Pumping Wind Mills	Nos.	100	98	100	208
13.	Small Aero-generator Systems	No.	10	10	25	24
14.	Wind Power Programme	MW	100	169,03	150	67
15.	Small Hydro Power Programme	MW	30	11	10	11.38
16.	Bagasse Cogeneration & Biomass Power	MW	35	58	45	41.5
17.	SPV Power Programme	MW	0.3	0.3	0.3	0.3
18.	Energy from Urban, Municipal and Industrial Wastes	MW	10	3.75	10	1

गैर-पारंपरिक ऊर्जा स्रोतों से बिजली उत्पादन

2522. **श्री जनेश्वर मिश्र:** क्या प्रधानमंत्री यह बताने की कृपा करेंगे कि:

(क) देश में उत्पादित होने वाले कुल बिजली का कितना प्रतिशत गैर-पारंपरिक ऊर्जा स्रोतों से उत्पन्न होता है; और

(ख) देश में गैर-पारंपरिक ऊर्जा स्रोतों से अनुमानत: कुल कितनी बिजली का उत्पादन होता है तथा इस क्षमता का राज्यवार ब्यौरा क्या है?

रेल मंत्रालय में राज्यमंत्री, संसदीय कार्य मंत्रालय में राज्यमंत्री और योजना और कार्यक्रम कार्यान्वयन मंत्रालय में राज्यमंत्री (श्री राम नाईक): (क) वर्ष 1997-98 के दौरान देश में कुल उत्पादित बिजली का अपारंपरिक ऊर्जा स्रोतों के माध्यम से उत्पादित बिजली अनुमानत: 0.5% है।

(ख) 31 मार्च, 1998 तक देश में पवन विद्युत, लघु पन बिजली तथा बायोमास विद्युत पर आधारित 1234.38 मैं०वा० की कुल विद्युत उत्पादन क्षमता की स्थापना की गई है। राज्यवार ब्यौरा विवरण में दिया गया है (नीचे देखिए)